

1/19

SEQUENCE LISTINGS

<110> Takeda Chemical Industries, Ltd.

<120> Novel Polypeptide and its Use

<130> 2622WOOP

<150>1999-06-30

<151>JP 11-186718

<160> 48

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<211> 26

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CGCAGAAGAA GTCAATATCC GTGGTG

26

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CAGCGTGTGT ACCAGGAAGC TACCAA

26

<210> 4

<211> 384

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<213> Human

<400> 4

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 ATATTTATGG ACCGTCTAGC TTCCAAGAAG CTCTGTGCAG ATGATGAGTG TGTCTATACT 120
 ATTTCTCTGG CTAGTGCCTCA AGAAGATTAT AATGCCCGG ACTGTAGATT CATTAAACGTT 180
 AAAAAAGGGC ACCAGATCTA TGTGTACTCA AAGCTGGTAA AAGAAAATGG AGCTGGAGAA 240
 TTTGGGCTG GCAGTGTITA TGGTGATGGC CAGGACGAGA TGGGAGTCGT GGGTTATTTC 300
 CCCAGGAAC TGGTCAAGGA ACAGCGTGTG TACCAAGGA CTACCAAGGA AGTTCCCACC 360
 ACGGATATTG ACTTCTCTG CGAG 384

<210> 5

<211> 18

<212> PRT

<213> Human

<400> 5

Met Ala Arg Ile Leu Leu Leu Phe Leu Pro Gly Leu Val Ala Val Cys

1 5 10 15

Ala Val

18

<210> 6

<211> 128

<212> PRT

<213> Human

<400> 6

Met Ala Arg Ile Leu Leu Leu Phe Leu Pro Gly Leu Val Ala Val Cys

1 5 10 15

Ala Val His Gly Ile Phe Met Asp Arg Leu Ala Ser Lys Lys Leu Cys

20 25 30

Ala Asp Asp Glu Cys Val Tyr Thr Ile Ser Leu Ala Ser Ala Gln Glu

35 40 45

Asp Tyr Asn Ala Pro Asp Cys Arg Phe Ile Asn Val Lys Lys Gly Gln

50 55 60

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Gln Ile Tyr Val Tyr Ser Lys Leu Val Lys Glu Asn Gly Ala Gly Glu
65 70 75 80
Phe Trp Ala Gly Ser Val Tyr Gly Asp Gly Gln Asp Glu Met Gly Val
85 90 95
Val Gly Tyr Phe Pro Arg Asn Leu Val Lys Glu Gln Arg Val Tyr Gln
100 105 110
Glu Ala Thr Lys Glu Val Pro Thr Thr Asp Ile Asp Phe Phe Cys Glu
115 120 125 128
<210> 7
<211> 24
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CACACAGCAC GTAGTCGCAG TTGG 24
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<400> 8
AACTTGGTGA AGGAGCAGCG TGTA 24
<210> 10
<211> 384
<212> DNA
<213> Mouse
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 GTATTTATGG ATAAACTTTC TTCTAAGAAG TTGTGTGCGG ATGAGGACTG TGTCTATACT 120
 ATTTCTCTGG CAAGAGCACA GGAAGATTAC AATGCCAG ACTGTAGGTT CATCGATGTC 180
 AAGAAAGGGC AGCAGATCTA TGTTTACTCC AAGCTGGTAA CAGAAAACGG AGCTGGAGAG 240
 TTTTGGGCTG GCAGTGTAA TGGTGACAC CAGGATGAGA TGGGAATTGT AGGTATTTTC 300
 CCCAGCAACT TGGTGAAGGA GCAGCGTCTA TACCAAGGAGG CCACCAAGGA GATCCCAACC 360
 ACGGATATTG ACTTCTCTG TGAA 384

<210> 11

<211> 18

<212> PRT

<213> Mouse

<400> 11

Met Ala Arg Ile Leu Ile Leu Leu Leu Gly Gly Leu Val Val Leu Cys

1 5 10 15

Ala Gly

18

<210> 12

<211> 128

<212> PRT

<213> Mouse

<400> 12

Met Ala Arg Ile Leu Ile Leu Leu Leu Gly Gly Leu Val Val Leu Cys

1 5 10 15

Ala Gly His Gly Val Phe Met Asp Lys Leu Ser Ser Lys Lys Leu Cys

20 25 30

Ala Asp Glu Glu Cys Val Tyr Thr Ile Ser Leu Ala Arg Ala Gln Glu

35 40 45

Asp Tyr Asn Ala Pro Asp Cys Arg Phe Ile Asp Val Lys Lys Gly Gln

50 55 60

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Gln Ile Tyr Val Tyr Ser Lys Leu Val Thr Glu Asn Gly Ala Gly Glu

65 70 75 80

Phe Trp Ala Gly Ser Val Tyr Gly Asp His Gln Asp Glu Met Gly Ile

85 90 95

Val Gly Tyr Phe Pro Ser Asn Leu Val Lys Glu Gln Arg Val Tyr Gln

100 105 110

Glu Ala Thr Lys Glu Ile Pro Thr Thr Asp Ile Asp Phe Phe Cys Glu

115 120 125 128

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ACACACAGTCC ATGCCATCAC 20

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

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<223>

<400> 14

TCCACCAACCC TGTGCTGTA 20

<210> 15

<211> 24

<212> DNA

<213> Artificial Sequence

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<223>

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CTACCGCGTG CGCCCCATCAT CAGA

24

<210> 16

<211> 25

<212> DNA

<213> Artificial Sequence

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<400> 16

GGGAGGGCGG TTTGGTGGG GTAGA

25

<210> 17

<211> 25

<212> DNA

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<220>

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CACACTGGTA AGTGGGGCAA GACCG

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GGATTGTGTT GTTTCAGGGT TCGGG

25

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ACCCCCCTGGC CCCTCTGGA

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<210> 20

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ATCTCACCTT TAGCCCCCTGG AATG

24

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

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<400> 21

GCCGGGGCATG GTGTATTAT

20

<210> 22

<211> 25

<212> DNA

<213> Artificial Sequence

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<223>

<400> 22

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GATCTCCTTG GTGGCCTCCT GGTAT

25

<210> 23

<211> 330

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<213> Human

<400> 23

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 TATACTATTCTCTGGCTAG TGCTCAAGAA GATTATAATG CCCCCGGACTG TAGATTCAATT 120
 AACGTTAAAA AAGGGCAGCA GATCTATGTG TACTCAAAGC TGGTAAAAGA AAATGGAGCT 180
 GGAGAATTTT GGGCTGGCAG TGTTTATGGT GATGGCCAGG ACGAGATGGG AGTCGTGGGT 240
 TATTTCCTTCA GGAACTTGGT CAAGGAACAG CGTGTGTACC AGGAAGCTAC CAAGGAAGTT 300
 CCCACCACGG ATATTGACTT CTTCTGCCAG 330

<210> 24

<211> 110

<212> PRT

<213> Human

<400> 24

His Gly Ile Phe Met Asp Arg Leu Ala Ser Lys Lys Leu Cys Ala Asp

5

10

15

Asp Glu Cys Val Tyr Thr Ile Ser Leu Ala Ser Ala Gln Glu Asp Tyr

20

25

30

Asn Ala Pro Asp Cys Arg Phe Ile Asn Val Lys Lys Gly Gln Gln Ile

35

40

45

Tyr Val Tyr Ser Lys Leu Val Lys Glu Asn Gly Ala Gly Glu Phe Trp

50

55

60

Ala Gly Ser Val Tyr Gly Asp Gly Gln Asp Glu Met Gly Val Val Gly

65

70

75

80

Tyr Phe Pro Arg Asn Leu Val Lys Glu Gln Arg Val Tyr Gln Glu Ala

85

90

95

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Thr Lys Glu Val Pro Thr Thr Asp Ile Asp Phe Phe Cys Glu

100 105 110

<210> 25

<211> 330

<212> DNA

<213> Mouse

<400> 25

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 TATACTATTCTCTGGCAAG AGCACAGGAA GATTACAATG CCCCCAGACTG TAGGTTCATC 120
 GATGTCAAGA AAGGGCAGCA GATCTATGTT TACTCCAAGC TGGTAACAGA AAACGGAGCT 180
 GGAGAGTTTT GGGCTGGCAG TGTATGGT GACCACCAAGG ATGAGATGGG AATTGTAGGT 240
 TATTTCCCCA GCAACTTGGT GAAGGAGCAG CGTGTATAACC AGGAGGCCAC CAAGGAGATC 300
 CCAACCACGG ATATTGACTT CTTCTGTGAA 330

<210> 26

<211> 110

<212> PRT

<213> Mouse

<400> 26

His Gly Val Phe Met Asp Lys Leu Ser Ser Lys Lys Leu Cys Ala Asp

5 10 15

Glu Glu Cys Val Tyr Thr Ile Ser Leu Ala Arg Ala Gln Glu Asp Tyr

20 25 30

Asn Ala Pro Asp Cys Arg Phe Ile Asp Val Lys Lys Gly Gln Gln Ile

35 40 45

Tyr Val Tyr Ser Lys Leu Val Thr Glu Asn Gly Ala Gly Glu Phe Trp

50 55 60

Ala Gly Ser Val Tyr Gly Asp His Gln Asp Glu Met Gly Ile Val Gly

65 70 75 80

Tyr Phe Pro Ser Asn Leu Val Lys Glu Gln Arg Val Tyr Gln Glu Ala

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85

90

95

Thr Lys Glu Ile Pro Thr Thr Asp Ile Asp Phe Phe Cys Glu

100

105

110

<210> 27

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223>

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CGAATTCCCCA CCATGGCAAG GATATTGATT CTTTGCTTG

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<210> 28

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223>

<400> 28

GTACAGTCGA CTTCACAGAA GAACTCAATA TCCGTGGTTG

40

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<211> 923

<212> DNA

<213> Human

<400> 29

GTCAGAGTTC AAGTAAAAAC AGAAAAAAGG AACATGGCAA GAATATTGTT ACTTTTCCTC 60

CCGGGTCTTG TGGCTGTATG TGCTGTGCAT GGAATATTAA TGGACCGTCT AGCTTCCAAG 120

AAGCTCTGTG CAGATGATGA GTGTGTCTAT ACTATTTCTC TGGCTAGTGC TCAAGAAGAT 180

TATAATGCCCGGCGACTGTAG ATTCAATTAAAC CTTAAAAAAG GGCACCGAGAT CTATGTGTAC 240

TCAAAGCTGG TAAAAGAAAA TCGAGCTGGA GAATTTGGG CTGGCAGTGT TTATGGTGAT 300

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GGCCAGGACG AGATGGGAGT CGTGGGTTAT TTCCCCAGGA ACTTGGTCAA GGAACAGCGT 360
GTGTACCAAGG AAGCTACCAA GGAAGTTCCC ACCACGGATA TTGACTTCTT CTGCGAGTAA 420
TAAATTAGTT AAAACTGCAA ATAGAAAGAA AACACCAAAA ATAAAGAAAA GAGCAAAAGT 480
GGCCAAAAAA TGCATGTCTG TAATTTGGA CTGACGTTT AAGAATTGT TACCTTACAG 540
AAGAGCAAGG GCTTAGGGGT TGGAGGTGGC AGATAAAAGA GGATTTCAA CTAAATCTT 600
GTTTCCCTGCT GGCCTGGTCT GCCCACGAGC TAGAGCGGGG AAATGTGAG CTAAATGGG 660
TAAATTGAGA CCAGAAAATT ATTTTTCAA CCTAGAGAAT CTCTCTTAC AGGGGGATGC 720
ATATAACAGA TCATGTATGT GTAGTTATT CTAAGTAGTA ATTCTTCCC GCTCTTGTAT 780
TTGCCATATA TAAAATAGGT GGGTCGTATG TCTTCCCTT AGACATGATG TTTCTACTC 840
ATTTGTCTCT CTGGCCAATT GAATTATTAA TAAAAGGTCT GTATTATCAA AGAAAAAAA 900
AAAAAAAAAA AAAAAAAA AAA 923

<210> 30

<211> 947

<212> DNA

<213> Mouse

<400> 30

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TGTCTATACT ATTTCTCTGG CAAGAGCACA GGAAGATTAC AATGCCCCAG ACTGTAGGTT 180
CATCGATGTC AAGAAAGGGC AGCAGATCTA TGTACTCC AAGCTGGTAA CAGAAAACGG 240
AGCTGGAGAG TTTGGGCTG GCAGTGTAA TGGTGACCAC CAGGATGAGA TCGGAATTGT 300
AGGTATTTTC CCCAGCAACT TGGTGAAGGA GCAGCGTGTAA TACCAAGGAGG CCACCAAGGA 360
GATCCCAACC ACGGATATTG ACTCTTCTG TGAATAAGAA ATTAATTAAA ACACCGAGATA 420
AAACAGAAAC ACCAGTGATG AAGAAGAGAA GAAGTGGAAA TAACTGAACC TGTGTATCCG 480
TACCTTCTG GCTTATTTG GTGGCAGGAG GTGGAGCTT GAAGGTGCTA AGATATGGAA 540
ATTGTCAACT CAGTCTTGTGTT TACTCTTGTCC CCGGTCTTTC CACCAACTGC GACTAAGTGC 600
TGTGTGAATC ATATAAGGTCA TTTATAACCC AATACTTAGC TTTCAAGGAG GAGAATCTT 660
ATTTACTCAG TGATGAACAT ATAAGGTGTT TTATCTGTAG TTATTCTAA ATGGTCATTG 720
TCCCCAGCTC TGACTCCATG TCCTTAAGCT TGCTGAGTTA GAAGTCTGAC TTTGGGTGT 780

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GTTCCTCTGTT ATTTGTCCTCT CTGGTCATGT GAAGTCTTAA TAATGTATTT GTCATGATAA 840
CTTCCTATTG TTACTTTTTA TATCTGATGC CCTTGGATAG AAGAATGTAA CGTATAAAAC 900
AAGTTTTGT ACTCCCCAAA AAAAAAAA AAAAAAAA AAAAAAA 947

<210> 31

<211> 21

<212> PRT

<213> Mouse

<400> 31

Val Lys Glu Gln Arg Val Tyr Gln Glu Ala Thr Lys Glu Ile Pro Thr

5 10 15

Thr Asp Ile Asp Cys

20

<210> 32

<211> 41

<212> DNA

<213> Artificial Sequence

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<400> 32

GTACAGTCGA CTTATTACCA GAAGAAGTCA ATATCCGTGG T 41

<210> 33

<211> 39

<212> DNA

<213> Artificial Sequence

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<400> 33

CGAATTCCCA CCATGGCAAG AATATTGTAA CTTTCCTC

39

<210> 34

13/19

<211> 38

<212> DNA

<213> Artificial Sequence

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<223>

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38

<210> 35

<211> 41

<212> DNA

<213> Artificial Sequence

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<223>

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GTACAGTCGA CTTACTCGCA GAAGAACTCA ATATCCGTGG T

41

<210> 36

<211> 39

<212> DNA

<213> Artificial Sequence

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<210> 37

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<212> DNA

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14/19

<400> 37

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38

<210> 38

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<212> DNA

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GTACAGTCGA CCTGGCAGTA GAAATCCCAT TGATCGGT

38

<210> 39

<211> 87

<212> PRT

<213> Rat

<400> 39

Asp Lys Leu Ser Ser Lys Lys Leu Cys Ala Asp Glu Glu Cys Val Tyr

5

10

15

Thr Ile Ser Leu Ala Arg Ala Gln Glu Asp Tyr Asn Ala Pro Asp Cys

20

25

30

Arg Phe Ile Asn Val Lys Lys Gly Gln Gln Ile Tyr Val Tyr Ser Lys

35

40

45

Leu Val Thr Glu Asn Gly Ala Gly Ala Phe Trp Ala Gly Ser Val Tyr

50

55

60

Gly Asp His Gln Asp Glu Met Gly Ile Val Gly Tyr Phe Pro Ser Asn

65

70

75

80

Leu Val Arg Glu Gln Arg Val

85

<210> 40

<211> 261

15/19

<212> DNA

<213> Rat

<400> 40

GGATAAACTT TCTTCTAAGA AGTTGTGTGC AGATGAGGAG TGTGTCTATA CCATTTCTCT 60
GGCAAGAGCA CAGGAAGACT ACAATGCCCC GGACTCTAGG TTCAATCAATG TCAAGAAAGG 120
GCAGCAGATC TATGTTTATT CCAAGCTGGT AACAGAAAAT GGAGCTGGGG CATTCTGGGC 180
TGGCACTGTT TATGGTGACC ACCAGGATGA GATGGGAATT GTGGGTTATT TCCCCAGCAA 240
CTTGGTTAGA GAGCAACGAG T 261

<210> 41

<211> 307

<212> DNA

<213> Rat

<400> 41

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TTCAATCAATG TCAAGAAAGG GCAGCAGATC TATGTTTATT CCAAGCTGGT AACAGAAAAT 180
GGAGCTGGGG CATTCTGGGC TGGCACTGTT TATGGTGACC ACCAGGATGA GATGGGAATT 240
GTGGGTTATT TCCCCAGCAA CTTGGTTAGA GAGCAACGAG TATACCAGGA GGGCCACCAA 300
GGAGATC 307

<210> 42

<211> 30

<212> DNA

<213> Artificial Sequence

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<400> 42

CACCAGGAATG AGATGGAAT TGTGGGTAT

<210> 43

<211> 30

16/19

<212> DNA

<213> Artificial Sequence

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<223>

<400> 43

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<210> 44

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223>

<400> 44

AGACACACTC CTCATCTGCA CACAACCTC

<210> 45

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223>

<400> 45

CTCCTCATCT GCACACAACT TCTTAGAAGA

<210> 46

<211> 384

<212> DNA

<213> Rat

<400> 46

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ATGTTTATGG ATAAACTTTC TTCTAACAGCAG ATGAGGGAGTG TGTCTATACC 120

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ATTTCTCTGG CAAGAGCACA GGAAGACTAC AATGCCCGG ACTGTAGGTT CATCAATGTC 180
AACAAAGGGC ACCAGATCTA TCTTATTCC AAGCTGGTAA CAGAAAATGG AGCTGGGGCA 240
TTCTGGGCTG CCAGTGTAA TGGTGACAC CAGGATGAGA TGGGAATTGT GGGTTATTTC 300
CCCAGCAACT TGGTAGAGA GCAACGAGTG TACCAAGGAGG CCACCAAGGA GATTCCAACC 360
ACGGATATTG ACTTCTCTG TGAA 384

<210> 47

<211> 128

<212> PRT

<213> Rat

<400> 47

Met Ala Arg Ile Leu Ile Leu Leu Leu Gly Gly Leu Val Ala Leu Cys

5 10 15

Ala Gly His Gly Met Phe Met Asp Lys Leu Ser Ser Lys Lys Leu Cys

20 25 30

Ala Asp Glu Glu Cys Val Tyr Thr Ile Ser Leu Ala Arg Ala Gln Glu

35 40 45

Asp Tyr Asn Ala Pro Asp Cys Arg Phe Ile Asn Val Lys Lys Gly Gln

50 55 60

Gln Ile Tyr Val Tyr Ser Lys Leu Val Thr Glu Asn Gly Ala Gly Ala

65 70 75 80

Phe Trp Ala Gly Ser Val Tyr Gly Asp His Gln Asp Glu Met Gly Ile

85 90 95

Val Gly Tyr Phe Pro Ser Asn Leu Val Arg Glu Gln Arg Val Tyr Gln

100 105 110

Glu Ala Thr Lys Glu Ile Pro Thr Thr Asp Ile Asp Phe Phe Cys Glu

115 120 125

<210> 48

<211> 330

<212> DNA

18/19

<213> Rat

<400> 48

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TATACCAATT CTCTGGCAAG AGCACAGGAA GACTACAATG CCCCCGACTG TAGGTTCATC 120
AATGTCAAGA AAGGGCAGCA GATCTATGTT TATTCCAAGC TGGTAACAGA AAATGGAGCT 180
GGGGCATTCT GGGCTGGCAG TGTTTATGGT GACCACCAGG ATGAGATGGG AATTGTGGGT 240
TATTTCCCCA GCAACTTGGT TAGAGAGCAA CGAGTGTACC AGGAGGCCAC CAAGGAGATT 300
CCAACCACGG ATATTGACTT CTTCTGTGAA 330

<210> 49

<211> 110

<212> PRT

<213> Rat

<400> 49

His Gly Met Phe Met Asp Lys Leu Ser Ser Lys Lys Leu Cys Ala Asp

5 10 15

Glu Glu Cys Val Tyr Thr Ile Ser Leu Ala Arg Ala Gln Glu Asp Tyr

20 25 30

Asn Ala Pro Asp Cys Arg Phe Ile Asn Val Lys Lys Gly Gln Gln Ile

35 40 45

Tyr Val Tyr Ser Lys Leu Val Thr Glu Asn Gly Ala Gly Ala Phe Trp

50 55 60

Ala Gly Ser Val Tyr Gly Asp His Gln Asp Glu Met Gly Ile Val Gly

65 70 75 80

Tyr Phe Pro Ser Asn Leu Val Arg Glu Gln Arg Val Tyr Gln Glu Ala

85 90 95

Thr Lys Glu Ile Pro Thr Asp Ile Asp Phe Phe Cys Glu

100 105 110

<210> 50

<211> 18

19/19

<212> PRT

<213> Rat

<400> 50

Met Ala Arg Ile Leu Ile Leu Leu Leu Gly Gly Leu Val Ala Leu Cys

5

10

15

Ala Gly

18